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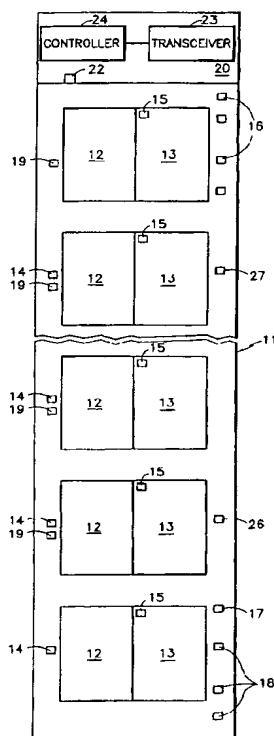
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(54) Title: ELEVATOR EMPLOYING RADIO FREQUENCY IDENTIFICATION DEVICES (RFIDS)



(57) Abstract: An elevator safety chain includes a plurality of passive radio frequency identification devices (RFIDs) (15-18, 22, 34-36 and 63), which are associated, respectively, with hoistway door locks, upper hoistway limits, lower hoistway limits, overspeed detection, car door lock, emergency stop switch, and inspection switch. RFIDs may be associated with car call buttons (34) and/or hall call buttons (14, 19). The RFIDs may have a switch (43, 44) in the frequency-determining circuitry (40, 41) which defeats the RFID's ability to respond, or a switch (48) which alters the responding frequency. The RFIDs may sense safe or unsafe conditions, or call requests, by either the presence of absence, or vice versa, of adjacent magnetic reluctance (51, 62, 71).

WO 2004/013030 A1